

ABSTRACT

An integrated secure encryption apparatus in one embodiment of the present invention is a self-contained secure console providing switch selectable secure and non-secure communications using the H.320 encoding standard. The system provides a standardized system for secure/non-secure videoconferencing communications systems employing three levels of protection: shielding, physical separation and fiber optic isolation. The system in one aspect includes an inverse multiplexer for receiving and converting data. A VWS black side switch is connected to the inverse multiplexer, and also connected to an encryption device at a Second contact of the VWS black side switch and connected to a VWS red side switch at a Contact 1 of the VWS black side switch. The VWS red side switch is connected to a codec, for example, a video conferencing codec. In a secure mode, Contact 1s of the VWS switches are disabled to allow data to be routed between the second contacts via the encryption device.